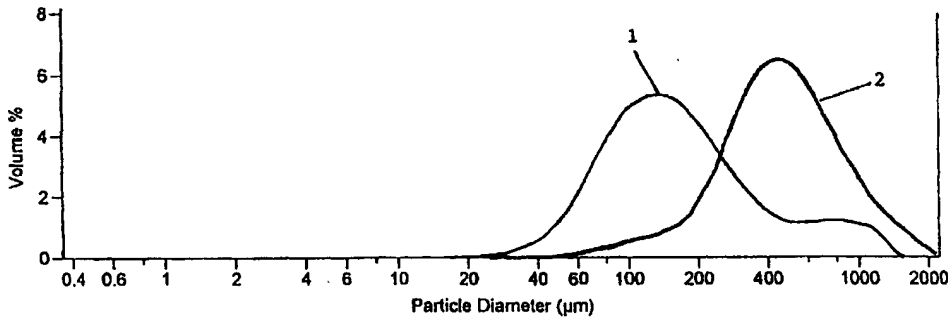




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: A21D 10/00, 2/00, 8/04	A1	(11) International Publication Number: WO 99/43213 (43) International Publication Date: 2 September 1999 (02.09.99)																																																			
(21) International Application Number: PCT/BE99/00025 (22) International Filing Date: 18 February 1999 (18.02.99) (30) Priority Data: 98870039.9 26 February 1998 (26.02.98) EP (71) Applicant (for all designated States except US): PURATOS NAAMLOZE VENNOOTSCHAP [BE/BE]; Industrialaan 25, B-1702 Groot-Bijgaarden (BE). (72) Inventors; and (75) Inventors/Applicants (for US only): ARNAUT, Filip [BE/BE]; Weverstraat 58, B-1761 Roosdaal (BE). JANKE, Hans-Christian [DE/DE]; Timmerbruch 31, D-57368 Lennestadt (DE). (74) Agents: VAN MALDEREN, Eric et al.; Office Van Malderen, Place Reine Fabiola 6/1, B-1083 Brussels (BE).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>																																																			
(54) Title: GRANULATED BREAD IMPROVER FOR THE PREPARATION OF BAKERY PRODUCTS  <table border="1"><caption>Approximate data points from the particle size distribution graph</caption><thead><tr><th>Particle Diameter (µm)</th><th>Volume % (Curve 1)</th><th>Volume % (Curve 2)</th></tr></thead><tbody><tr><td>0.4</td><td>0.0</td><td>0.0</td></tr><tr><td>0.6</td><td>0.0</td><td>0.0</td></tr><tr><td>1</td><td>0.0</td><td>0.0</td></tr><tr><td>2</td><td>0.0</td><td>0.0</td></tr><tr><td>4</td><td>0.0</td><td>0.0</td></tr><tr><td>6</td><td>0.0</td><td>0.0</td></tr><tr><td>10</td><td>0.0</td><td>0.0</td></tr><tr><td>20</td><td>0.0</td><td>0.0</td></tr><tr><td>40</td><td>0.5</td><td>0.0</td></tr><tr><td>60</td><td>2.5</td><td>0.0</td></tr><tr><td>100</td><td>5.0</td><td>0.0</td></tr><tr><td>150</td><td>5.5</td><td>0.5</td></tr><tr><td>200</td><td>4.5</td><td>1.5</td></tr><tr><td>400</td><td>1.5</td><td>6.5</td></tr><tr><td>1000</td><td>0.0</td><td>1.5</td></tr><tr><td>2000</td><td>0.0</td><td>0.0</td></tr></tbody></table> (57) Abstract <p>The present invention is related to a bread improver in the form of a powder, characterised in that it is made of agglomerated particles having a mean particle size of at least 250 µm. The present invention is also related to the preparation method of said bread improver.</p>			Particle Diameter (µm)	Volume % (Curve 1)	Volume % (Curve 2)	0.4	0.0	0.0	0.6	0.0	0.0	1	0.0	0.0	2	0.0	0.0	4	0.0	0.0	6	0.0	0.0	10	0.0	0.0	20	0.0	0.0	40	0.5	0.0	60	2.5	0.0	100	5.0	0.0	150	5.5	0.5	200	4.5	1.5	400	1.5	6.5	1000	0.0	1.5	2000	0.0	0.0
Particle Diameter (µm)	Volume % (Curve 1)	Volume % (Curve 2)																																																			
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/BE 99/00025

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 A21D10/00 A21D2/00 A21D8/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 998 016 A (THE PROCTER & GAMBLE COMPANY) 14 July 1965 see the whole document ---	1-11
Y	US 3 527 647 A (HAGER JOHN L) 8 September 1970 see claims; example 4 ---	1-11
A	GB 920 261 A (THE PILLSBURY COMPANY) 6 March 1963 see claims; examples 1,3,6 ---	1-7
A	EP 0 659 344 A (GIST BROCADES NV) 28 June 1995 cited in the application ---	
A	FR 2 711 486 A (GIST BROCADES FRANCE SA) 5 May 1995 ---	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

3 June 1999

Date of mailing of the international search report

10/06/1999

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/BE 99/00025

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 650 669 A (GIST BROCADES BV) 3 May 1995 -----	

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/BE 99/00025

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 998016 A		NONE	
US 3527647 A	08-09-1970	NONE	
GB 920261 A		CH 401012 A DE 1245916 B DE 1301801 B FR 1236209 A NL 125131 C NL 242885 A US 2995773 A	14-11-1960 15-08-1961
EP 0659344 A	28-06-1995	AU 676406 B AU 8173194 A CA 2138817 A JP 7203953 A NZ 270266 A US 5716654 A ZA 9410270 A	06-03-1997 29-06-1995 25-06-1995 08-08-1995 24-04-1997 10-02-1998 29-08-1995
FR 2711486 A	05-05-1995	AU 675008 B AU 7750894 A CA 2134597 A EP 0650669 A JP 7194290 A US 5650188 A	16-01-1997 18-05-1995 30-04-1995 03-05-1995 01-08-1995 22-07-1997
EP 0650669 A	03-05-1995	FR 2711486 A AU 675008 B AU 7750894 A CA 2134597 A JP 7194290 A US 5650188 A	05-05-1995 16-01-1997 18-05-1995 30-04-1995 01-08-1995 22-07-1997

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International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 998016	A		NONE	
US 3527647	A	08-09-1970	NONE	
GB 920261	A		CH 401012 A DE 1245916 B DE 1301801 B FR 1236209 A NL 125131 C NL 242885 A US 2995773 A	14-11-1960 15-08-1961
EP 0659344	A	28-06-1995	AU 676406 B AU 8173194 A CA 2138817 A JP 7203953 A NZ 270266 A US 5716654 A ZA 9410270 A	06-03-1997 29-06-1995 25-06-1995 08-08-1995 24-04-1997 10-02-1998 29-08-1995
FR 2711486	A	05-05-1995	AU 675008 B AU 7750894 A CA 2134597 A EP 0650669 A JP 7194290 A US 5650188 A	16-01-1997 18-05-1995 30-04-1995 03-05-1995 01-08-1995 22-07-1997
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